
Configuring an American Arium Emulator with Ethernet Connection Capabilities for the First Time

An Application Note

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Overview

An ethernet-capable emulator can be configured in one of two ways. The most method is to use the American Arium Configuration Wizard which pops up at the end of the install program. The wizard is made up of a short series of GUI windows that walk you through the process step by step. Alternatively, you can use our “confice” utility, which configures the system in DOS. This latter option is valuable when the wizard fails to work, which sometimes happens when the host computer has been custom configured itself.

TCP/IP Connection

To connect to the emulator either directly or through a server-based network, you will need the following information. If you are connecting through a server-based network, contact your network administrator to obtain this information. If you are directly connecting the emulator to the host PC without a server-based network, you may use the suggested values listed below.

	Network Connection (From Network Administrator)	Direct Connection (Suggested Values)
Host PC TCP/IP Address	Does not need to be known	192.168.000.002
Emulator TCP/IP Address	_____ . _____ . _____ . _____	192.168.000.001
Emulator Network Mask	_____ . _____ . _____ . _____	255.255.255.000
Emulator Network Gateway	_____ . _____ . _____ . _____	192.168.000.002

Note: If you are connecting through a DHCP network where TCP/IP addresses are assigned dynamically, you will need a fixed TCP/IP address for the TRC-20, ECM-20, and ECM-30 products. A dynamic TCP/IP address is acceptable for the host PC.

Note: The first time you connect a system using an emulator with an ethernet connection, plug in both the network and serial connections. Once you have established the IP address, you can exit WinDb and remove the serial connection. To establish the IP address, run WinDb Configuration Wizard (“AACConfig”) or “confice.”

WinDb Configuration Wizard (“AAConfig”)

As part of the installation process, WinDb’s configuration wizard can be enabled, causing a GUI box to pop up. The box walks you through the configuration process, letting you plug in the required data (see above) in a step-by-step fashion.

Note: You are offered an opportunity to ping the emulator. Disable this option; it does not function at this time.

Some users have custom configured their systems such that the WinDb Configuration Wizard won’t work. If you cannot establish a communications link with the wizard, use “confice.”

“confice”

To access this utility, go to the “confice” utility that is packaged with WinDb. To access the utility:

1. Connect the emulator to the computer hosting WinDb via a serial connection.
2. Open a console session (i.e., a DOS session).
3. Change the working directory to the directory where WinDb has been installed. Normally, if WinDb is installed in the default directory, the command is:

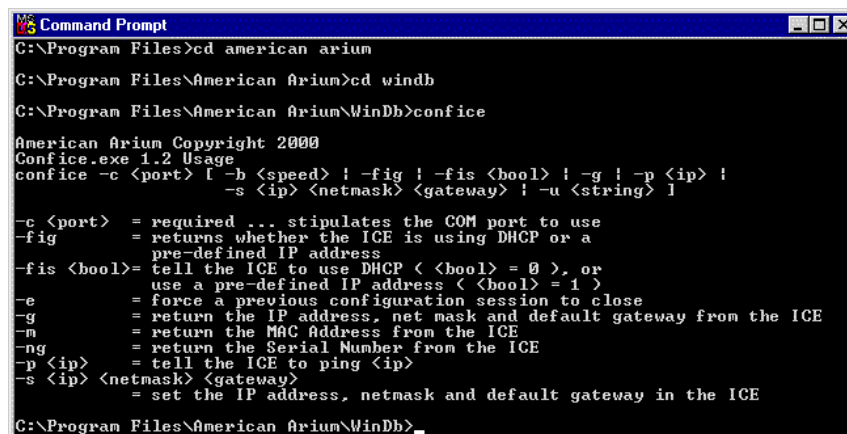
Cd:C:\program files\american arium\windb

4. To invoke a list of available commands and their syntax, run confice without any parameters in the following manner:

Confice

Confice commands are executed by adding parameters when invoking the application. For example, the following shows the TCP/IP settings of the emulator using COM 1:

confice -c 1 -g



```
Command Prompt
C:\Program Files>cd american arium
C:\Program Files\American Arium>cd windb
C:\Program Files\American Arium\Windb>confice

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Confice.exe 1.2 Usage
confice -c <port> [-b <speed>] [-fig !] [-fis <bool>] [-g !] [-p <ip>] [-s <ip> <netmask> <gateway>] [-u <string>] !

-c <port> = required ... stipulates the COM port to use
-fig      = returns whether the ICE is using DHCP or a
            pre-defined IP address
-fis <bool> = tell the ICE to use DHCP (<bool> = 0), or
            use a pre-defined IP address (<bool> = 1)
-e        = force a previous configuration session to close
-g        = return the IP address, net mask and default gateway from the ICE
-m        = return the MAC Address from the ICE
-ng       = return the Serial Number from the ICE
-p <ip>    = tell the ICE to ping <ip>
-s <ip> <netmask> <gateway> = set the IP address, netmask and default gateway in the ICE

C:\Program Files\American Arium\Windb>
```

“confice” commands

Note: Each time you issue a command, you open confice (hence the need to key in confice at the beginning of each command). As a result, you do not need to exit the program with a command unless the system hangs.



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